

HORIZON 2020

HEALTH PARTNERING DAY 2017

HEALTH, DEMOGRAPHIC CHANGE & WELLBEING



7 DECEMBER 2017, BRUSSELS

Better Health and Care, Session 1

TO DEVELOP LONG LIVING *C. ELEGANS* AND *C. BRENNERI* STRAINS TO BE USED AS DISCOVERY TOOLS FOR MECHANISMS OF EXTENDED LIFESPAN

Abdullah OLGUN, MD, Prof. (Dean)

Istinye University, Faculty of Pharmacy, Istanbul Turkey

Project idea / Company expertise



Experimental evolution is a very strong tool to make discoveries.

By experimental evolution/artificial selection technique, long living *C. elegans* and *C. brenneri* strains will be developed.

This will be accomplished by allowing the worms to reproduce only at the latest stages of their reproductive period.

This strategy has already been successful in extending lifespan in *Drosophila*.

After developing long living *C. elegans* and *C. brenneri* strains by experimental evolution/artificial selection, the mechanisms of their longevity will be discovered by high throughput techniques (genomics, proteomics, metabolomics etc.) for each long living worm line.

This strategy will be used as a discovery tool.

After discovering the mechanisms, the mechanisms that can be translated to human aging/age related diseases will be used as targets for potential interventions.

Topic

Possible topic/topics

Innovative health and care industry - SC1-BHC-09-2018- Innovation platforms for advanced therapies of the future

Keywords

Health, Aging, Senescence, Biogerontology, High throughput techniques, turning big data to knowledge in health and life sciences

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Contact details

Abdullah Olgun, MD, Prof. (Dean)

Faculty of Pharmacy, Istinye University

(Istinye Üniversitesi, Eczacılık Fakültesi, Topkapı
Kampüsü, Maltepe Mah., Edirne Çırpıcı Yolu, No.9
Zeytinburnu, Istanbul, 34010)

E-mail: abdullah.olgun@istinye.edu.tr

Phone: +90 505 6695248

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Istinye University

Istinye University was founded in the year 2015 by the 21st Century Anatolian Foundation as the continuation of the knowledge and experience of the MLPCare Group, which brings together three different hospital brands, "Liv Hospital", "Medical Park" and "VM Medical Park", that make the biggest private hospital chain (up to 40 hospitals) in Turkey, under one roof.

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Partners Required

Our University's different faculties and departments are looking for partners in all call topics including personalised medicine, microbiome, in silico models, turning data into knowledge, future therapies (antibiotics, senolytics, vaccines, chemotherapeutics, etc..), evidence based medicine, brain research, nutrition, cancer, stem cell based therapies, exosomes and miRNA

My group's special interest is aging and age related diseases.